

Title (en)
SYSTEM AND METHOD FOR AMPLIFYING A SIGNAL USING MULTIPLE AMPLIFICATION STAGES SHARING A COMMON BIAS CURRENT

Title (de)
SYSTEM UND VERFAHREN ZUR SIGNALVERSTÄRKUNG MIT MEHREREN VERSTÄRKUNGSSTUFEN MIT GEMEINSAMEN VORMAGNETISIERUNGSSTROM

Title (fr)
SYSTÈME ET PROCÉDÉ D'AMPLIFICATION D'UN SIGNAL UTILISANT PLUSIEURS ÉTAGES D'AMPLIFICATION PARTAGEANT UN COURANT DE POLARISATION COMMUN

Publication
EP 2471173 B1 20150225 (EN)

Application
EP 10752226 A 20100826

Priority

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- US 55811009 A 20090911
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Abstract (en)
[origin: US2011050340A1] An apparatus including cascaded amplification stages adapted to be biased by a common DC current to generate an amplified output signal from an input signal. A first amplification stage includes a routing network to substantially double an input voltage signal, and a first transconductance gain stage to generate a first current signal from the input voltage signal. A second amplification stage includes a resonator to convert the first current signal into a second voltage signal, and a second transconductance gain stage to generate a second current signal from the first current signal. A third amplification stage includes a current gain stage to generate a third current signal from the second current signal, and a load through which the third current signal flows to generate the output signal.

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